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200207642

New U.S. Application  
Docket No. 32860-000558/US

# Abstract

~~Method for exchanging detector modules in an X-ray detector in a computer tomograph~~

~~The invention relates to a~~ method is for exchanging a first detector module ( $m$ ), in an X-ray detector in a ~~computercomputed~~ tomograph having a module configuration  $a$ , for a second detector module ( $m'$ ). ~~Where~~ the first detector module has an associated correction table ( $T_{S(a,m,x)}$ ) for eliminating temperature-dependent signal changes, which is dependent on the respective module configuration of the detector and ~~needs to be~~ which is recreatable following the exchange of a detector module. F

~~The invention is distinguished in that~~ for the first and second detector modules ( $m$ ,  $m'$ ) in a detector in a reference ~~computercomputed~~ tomograph having the module configuration  $b$ , a respective correction table ( $T_{S(b,m,x)}$ ,  $T_{S(b,m',x)}$ ) is created. ~~D and its differences~~, preferably only in the area of the channels of the detector module which is to be exchanged, are ascertained. ~~Finally, and~~ the new correction table ( $T_{S(a,m',x)}$ ) for operating the second detector module ( $m'$ ) in the ~~computercomputed~~ tomograph having the module configuration  $a$  is calculated by transferring the ascertained difference values to the old correction table ( $T_{S(a,m,x)}$ ).

**FIGURE 3**